

IN THE CLAIMS

1. (Currently Amended) A network device, comprising:
a port to allow the device to communicate with a called endpoint;
a processor to:
 send a call request message associated with a call to the called endpoint, the call request message including a delayed call establishment capability advertisement; and
 indicate a desire to delay call establishment until a delay point is reached, the delay point indicating call supplementary services, the call supplementary services including one of call completion on busy and call completion on no answer.
2. (Previously presented) The network device of claim 1, wherein the processor further to receive a notification that a delay point has been reached.
3. (Previously presented) The network device of claim 1, wherein the processor further to determine if the call is to be established and, if the call is to be established, notify the called endpoint.
4. (Previously presented) The network device of claim 1, in which the network device comprises a calling endpoint.
5. (Currently Amended) A method of delaying call establishment, the method comprising:
transmitting, from a network device at a calling endpoint, a call request message associated with a call to a called endpoint ~~identifying a delay point~~, the call request message including a delayed call establishment capability advertisement ~~that is one of desired or mandatory and a delay point~~, the delay point indicating ~~feature discovery of the called endpoint~~, ~~the delay point further indicating call supplementary services~~ a point to which the call is to progress before delaying establishment of the call.
6. (Original) The method of claim 5, the method comprising receiving a notification from the called endpoint that the delay point has been reached.

7. (Original) The method of claim 5, the method comprising determining if the call is to be established.
8. (Original) The method of claim 5, the method comprising notifying the called endpoint if the call is to be established.
9. (Previously presented) The method of claim 5, the method comprising performing maintenance testing without notifying the called endpoint to start alerting a called user, wherein maintenance comprises at least one of the group comprised of: quality of service (QoS) testing, service level verification, probing endpoints, querying for services supported by a device.
10. (Previously presented) The method of claim 5, wherein transmitting a call request message comprising transmitting a session initiation protocol INVITE message.
11. (Previously presented) The method of claim 5, wherein transmitting a call request message comprising transmitting an H.323 Setup message.
12. (Canceled)
13. (Previously presented) The method of claim 5, the method comprising receiving a notification from the called endpoint comprising a Delay Point Reached message.
14. (Previously presented) The method of claim 8, wherein notifying the called endpoint further comprising sending a Delayed Call Establishment Release message to notify the called endpoint to alert a called user, thereby establishing the call.
15. (Currently Amended) A method of delayed call establishment, the method comprising: receiving, at a network device at a called endpoint, a call request message associated with a call indicating a need for delayed call establishment and identifying a delay point, the call request message including a delayed call establishment capability advertisement that is one of mandatory or desired, the delay point indicating ~~feature discovery of the called endpoint and call~~

supplementary services a point to which the call should progress before delaying establishment of the call.

16. (Previously presented) The method of claim 15, the method comprising:
transmitting a response indicating availability of delayed call establishment; and
progressing the call to the delay point.
17. (Original) The method of claim 15, the method comprising notifying a calling endpoint that that delay point has been reached.
18. (Previously presented) The method of claim 17, the method comprising processing the call as indicated by the calling endpoint.
19. (Previously presented) The method of claim 18, in which processing the call comprises alerting a user, of a called endpoint, of the call.
20. (Previously presented) The method of claim 18, in which processing the call comprises performing maintenance and feature discovery on the called endpoint without alerting a user of the called endpoint, in which feature discovery comprises determining if the calling endpoint and the called endpoint have matching features.
21. (Currently Amended) A network device, comprising:
a port to allow the device to communicate with a calling endpoint;
a processor to:
receive a call request message associated with a call from the calling endpoint, the call request message including a delayed call establishment capability advertisement and a delay point to which the call should progress before delaying call establishment, the delay point indicating call request message including feature discovery of a called endpoint and call supplementary services, in which feature discovery of the called endpoint is a process of determining if features of the called endpoint match features of the calling endpoint;
respond with a notification of delayed call establishment availability; and
process the call to a delay point.

22. (Previously presented) The network device of claim 21, wherein the processor further to transmit a notification that the delay point has been reached.
23. (Previously presented) The network device of claim 21, wherein the processor further to determine if the call is to be established and, if the call is to be established, notify a user.
24. (Previously presented) The network device of claim 21, in which the network device comprises the called endpoint.
25. (Previously presented) The network device of claim 21, in which the calling endpoint comprises an intermediary.
26. (Currently Amended) An article of computer-readable media storing computer executable instructions that, when executed, cause computer to:
transmit a call request message associated with a call to a called endpoint identifying a delay point to which a call should progress before delaying establishment of the call, the delay point indicating call request message indicating feature discovery of the called endpoint and call supplementary services.
27. (Previously presented) The article of claim 26, wherein the instructions further causing the computer to receive a notification from the called endpoint that the delay point has been reached, the call supplementary services comprising call completion on no answer.
28. (Previously presented) The article of claim 26, wherein the instructions further causing the computer to determine if the call is to be established.
29. (Previously presented) The article of claim 26, wherein the instructions further causing the computer to notify the called endpoint if the call is to be established.
30. (Previously presented) The article of claim 26, wherein the instructions further causing the computer to perform maintenance testing without notifying the called endpoint to start

alerting a called user, wherein maintenance comprises at least one of the group comprised of: quality of service (QoS) testing, service level verification, probing endpoints, querying for services supported by a device.

31. (Currently Amended) An article of computer-readable media containing computer executable instructions that, when executed, cause computer to:

receive a call request message associated with a call indicating a need for delayed call establishment and identifying a delay point, the delay point indicating ~~feature discovery of the called endpoint and call supplementary services~~ a point to which the call should progress before delaying the call, the call request message including in which feature discovery of the called endpoint ~~comprises determining to determine~~ if features of the called endpoint match features of a calling endpoint.

32. (Previously presented) The article of claim 31, the instructions further causing the computer to

transmit a response indicating availability of delayed call establishment; and
progress the call to the delay point.

33. (Previously presented) The article of claim 31, the instructions further causing the computer to notify the calling endpoint that that delay point has been reached.

34. (Previously presented) The article of claim 31, the instructions further causing the computer to process the call as indicated by the calling endpoint.

35. (Currently Amended) A network device, comprising:

a means for allowing the device to communicate with a called endpoint;
a means for sending a call request message associated with a call to the called endpoint, the call request message including a delayed call establishment capability advertisement, the call request message including feature discovery; and
a means for indicating a desire to delay call establishment until a delay point is reached, ~~the delay point indicating feature discovery of the called endpoint and call supplementary services~~.

36. (Currently Amended) A network device, comprising:
a means for allowing the device to communicate with a calling endpoint;
a means for receiving a call request message associated with a call from the calling endpoint, the call request message including a delayed call establishment capability advertisement, feature discovery and a delay point, the delay point indicating ~~feature discovery of the called endpoint and call supplementary services~~ a point to which the call should progress before delaying call establishment;
a means for responding with a notification of delayed call establishment availability; and
a means for processing the call to a delay point.
37. (canceled)
38. (Previously presented) The network device of claim 1, wherein the delay point indicates diagnostic testing without alerting a user of the called endpoint.
39. (Previously presented) The network device of claim 1, wherein the delay point indicates media ports properly opened prior to call completion.
40. (Previously presented) The network device of claim 21, wherein the delay point indicates diagnostic testing without alerting a user of the called endpoint.
41. (Previously presented) The network device of claim 21, wherein the delay point indicates media ports properly opened prior to call completion.
42. (Previously presented) The network device of claim 21, wherein the call supplementary services include call completion on busy and call completion on no answer.